

# Where (on the landscape or microsites) should reforestation occur?

Facilitated by: Dana Walsh and Marc Meyer USFS

# Breakout Sessions

- ▶ Session 1: Management Challenges and Successes
- ▶ Session 2: Information Gaps and Research Needs

# Breakout Session Format

- ▶ Assemble Breakout Groups - 4 themes
- ▶ Breakout Group Discussion - 25 minutes
  - ▶ Address two questions
- ▶ Group Report Out - 20 minutes

# Four Reforestation Themes

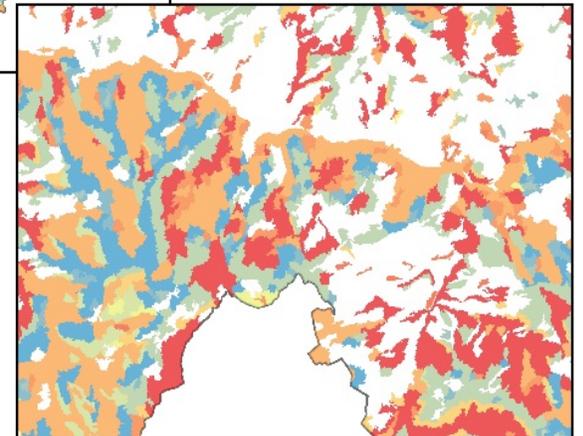
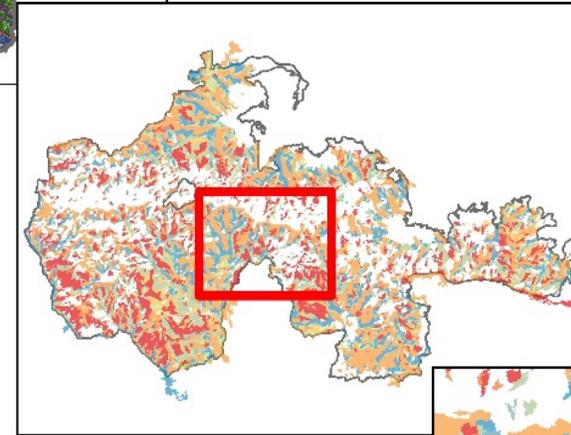
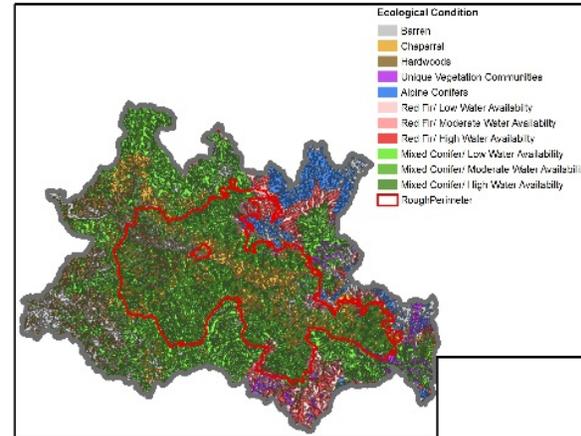
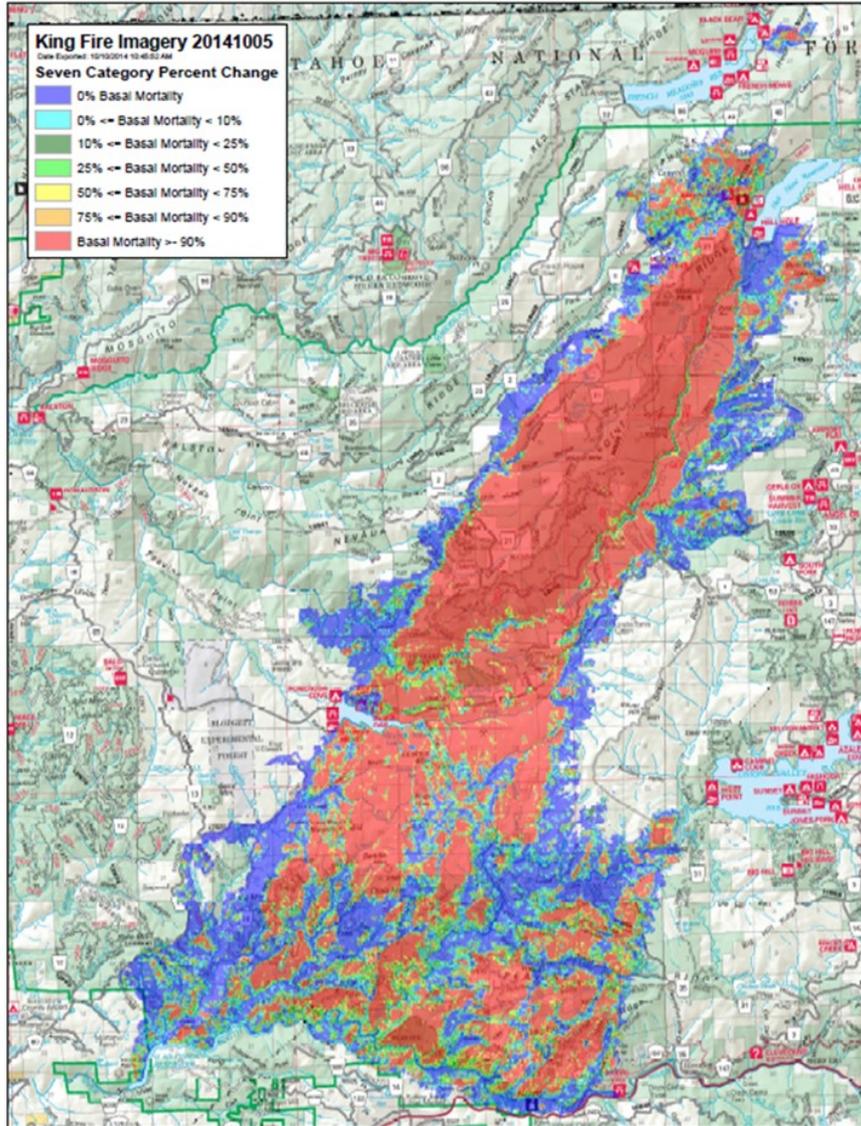
1. Post-fire landscapes
2. Post-insect (tree mortality) landscapes
3. Special emphasis species restoration
  - ▶ Focal species, disease resistance, wildlife habitat
4. Climate adaptation

# Question 1: What key questions or challenges do you face when prioritizing reforestation on the landscape?

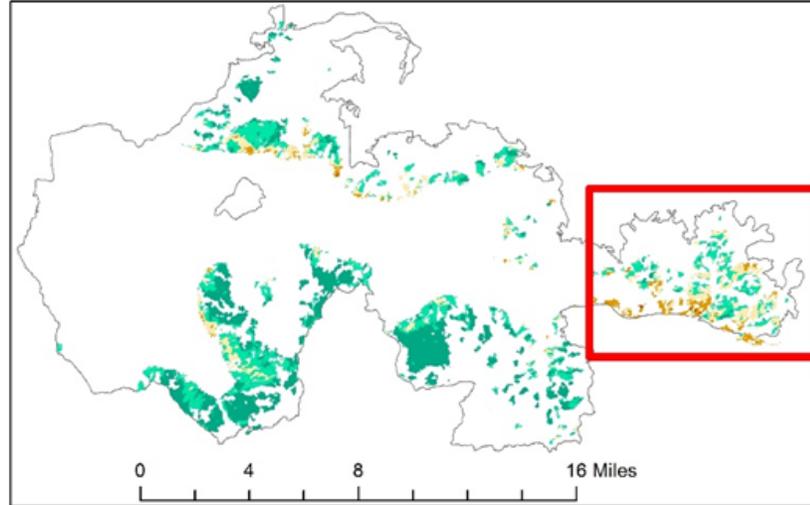
- ▶ Limited resources, potential changes in site productivity
- ▶ Stakeholder priorities, landscape scale perspectives, natural regeneration



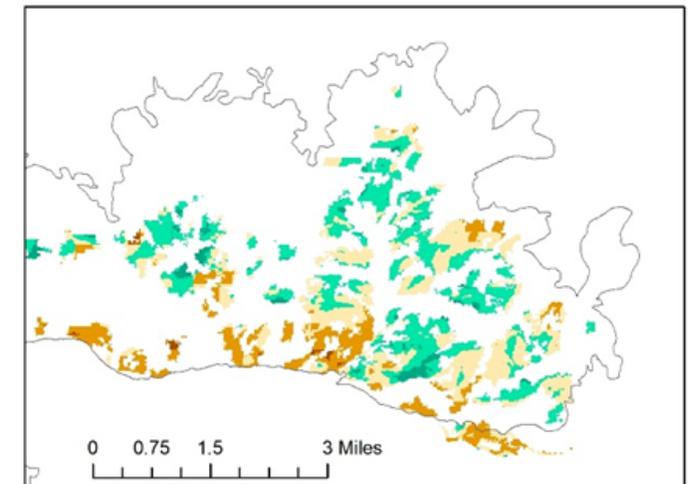
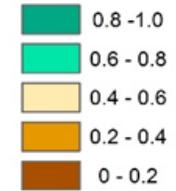
# Departure from Desired Conditions



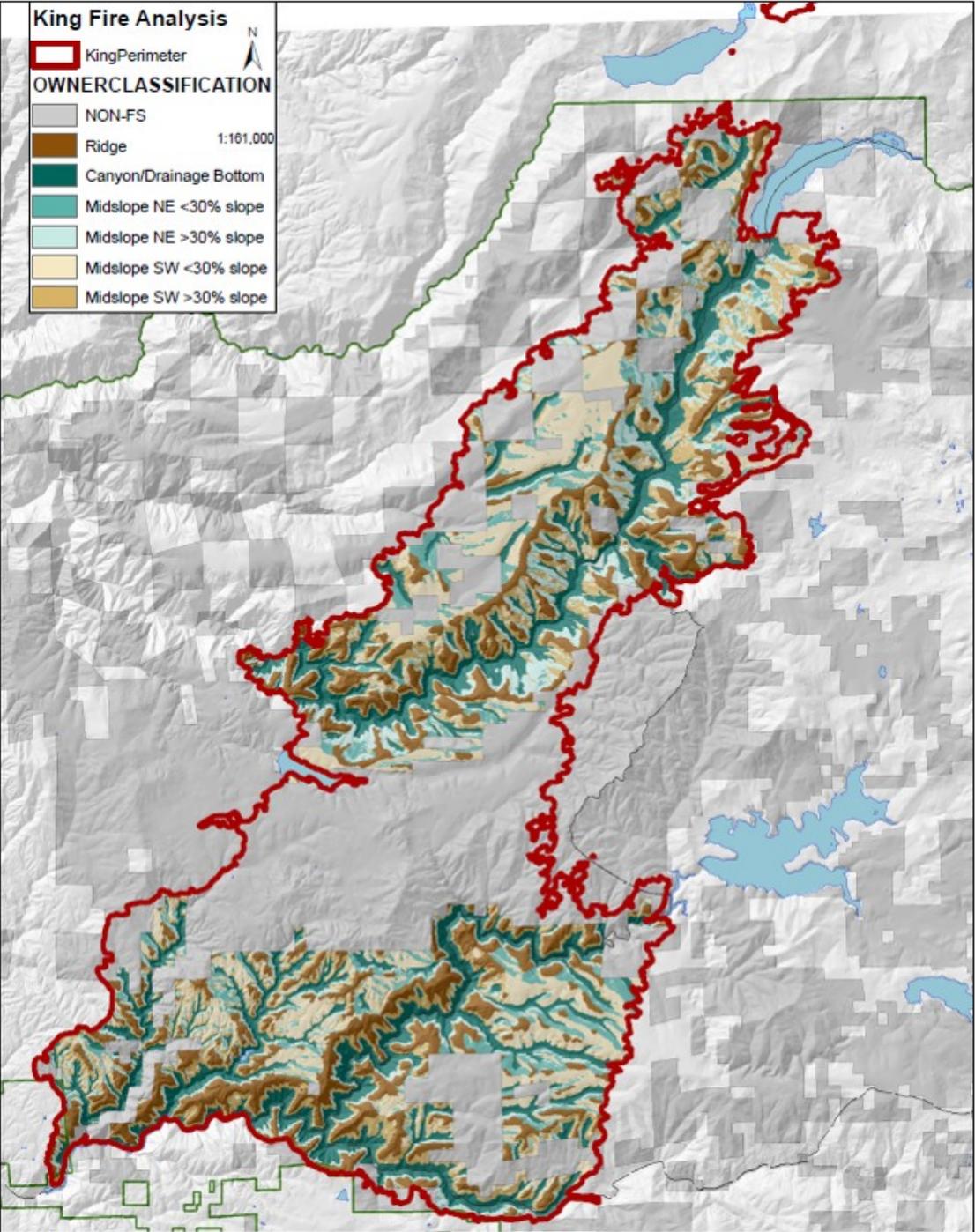
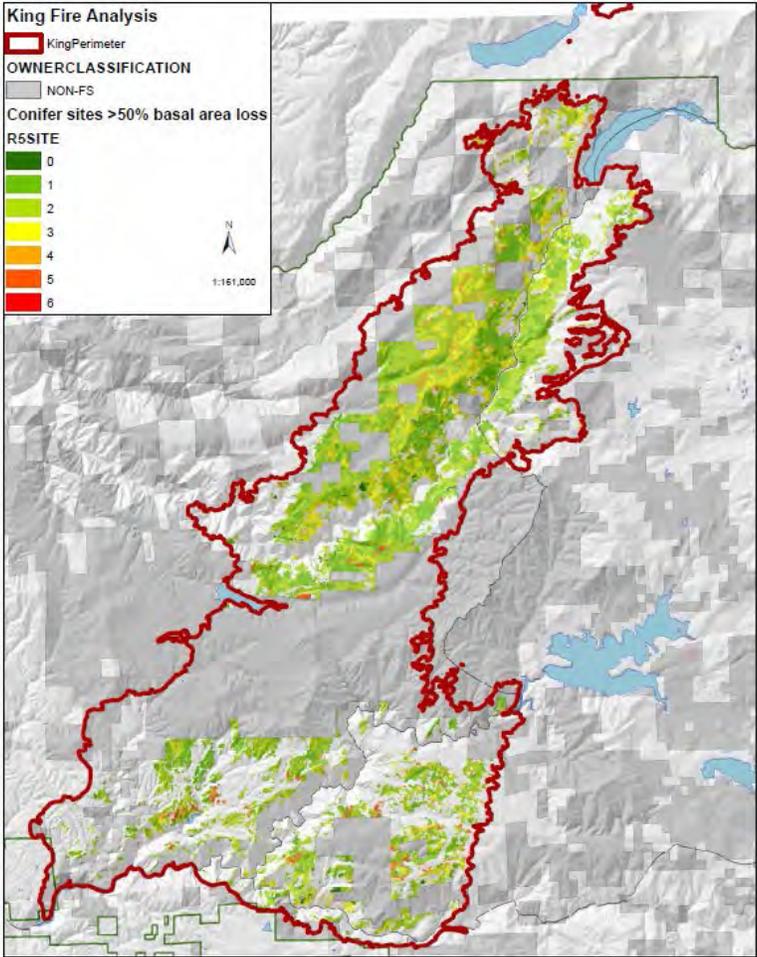
# Need for Planting vs. Probability of Natural Regeneration



**Predicted Probability Class  
for Natural Regeneration**

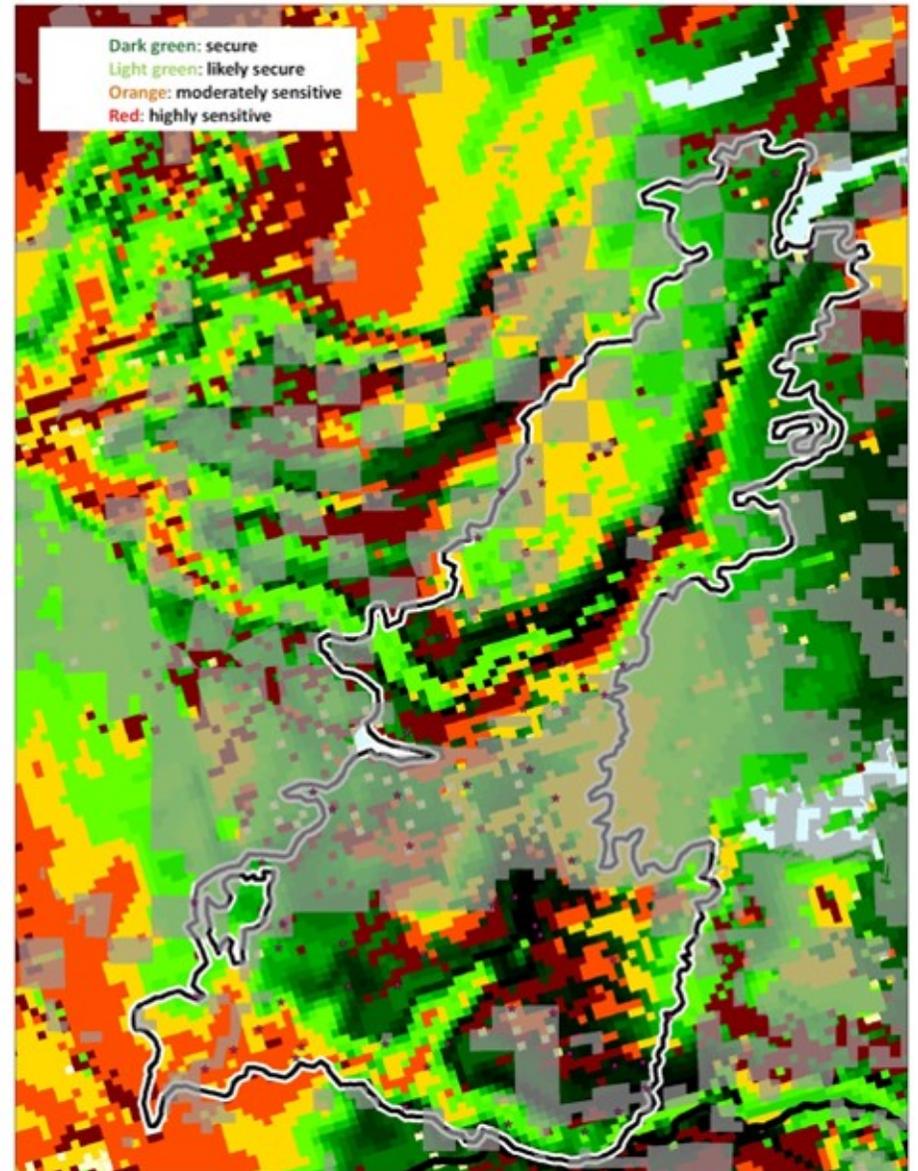


# Site Productivity and Growth Potential





# Assessing Climate Vulnerability



# Question 1: What key challenges or questions do you face when prioritizing reforestation on the landscape?

- ▶ Limited resources, potential changes in site productivity
- ▶ Stakeholder priorities, landscape scale perspectives, natural regeneration



## Question 2: What is working well and how do you leverage/upscale for greater success?



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- ▶ Planting environments on the landscape
  - ▶ Elevation, aspect, forest type, fire severity patterns
- ▶ Unique microsites
  - ▶ Vegetation cover, soils, light or moisture availability
- ▶ Examples of success (or failure)?



# Where should reforestation occur?

## Session 2: Info Gaps & Research Needs

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Question 1: What are the essential information gaps relevant to where reforestation should occur?



# Question 1: What are the essential information gaps relevant to where reforestation should occur?

- ▶ Departure from desired conditions (or NRV)
- ▶ Probability of natural regeneration
- ▶ Site productivity & growth potential
- ▶ Planning for future wildland fire management
- ▶ Climate vulnerability
- ▶ Insect/pathogen risk
- ▶ Wildlife habitat considerations

## Question 2: What research or other activities could be developed to address these gaps?

- ▶ Targeted research projects or monitoring
  - ▶ Opportunities to leverage data
- ▶ Remote-sensing data
  - ▶ LiDAR, hyperspectral imagery, change detection
- ▶ Decision support tools
- ▶ Research-management partnerships